

GAYDAYEV, Petr Alekseyevich; FCMIN, Mikhail Pavlovich; GUTER, R.S.; YERO-FEMINIE, J. MILEVSKIY, Yu.G.; MURALEV, Ia.C; FUMIN, M.P.; SHURYGI-RA, A.I., red. izd-wa; ROMAKOVA, V.V., tekhn. red.

[Adjustment of second-order triangulation by approximations] Uravnivanie triangulatiii 2 klassa priblisheniismi. Moskva, Izd-vo geodez.

(It-ry, 1960. 36 p. (Triangulation)

(MIRA 14:6)

GREENMUK, V.A., gornyy inzhener; YERGFIEV, I.Ye., gdrnyy inzhener;
FUSTOVALOV, A.I., gornyy inzhener; CHEPGTARZY, B.A., gornyy
inzhener

Use of distributed charges in drifting. Gor. zhur. no.1:70-71
Ja '62. (MIRA 15:7)

1. Zyryanovskiy svintsovoyy kombinat.
(Zyryanovsk District—Blasting)
(Mining engineering)

YEROFEYEV, I.Ye., gornyy inzh.; CHEBOTAREV, B.A., gornyy inzh.

Means of preventing the damaging of deep boreholes in largescale blasting. Gor. zhur. no.2:38-40 F'62. (MIRA 17:2)

1. Masylyanskiy rudnik, g. Zyryanovsk.

GREBENYUK, V.A.; FUSTOVALOV, A.I.; YERDFEYEV, I.Yo.; KARABACH, T.L.; TURGAMBAYEV, B.M.; BOSYAKOV, P.Ye.; YERMOLAYEV, A.G.; FOMENKO, V.D.; YEGOROCHKIN, A.A.; GROMOV, D.I.; ZHUYKO, Yu.P.; PANOV, S.A.;

[Twenty-second Congress of the Communist Party of the Soviet Union Mine] Rudnik imeni XXII s"ezda KPSS. Moskva, Nedra, 1964. 87 p. (MIRA 17:10)

1. Russia (1917- R.S.F.S.R.) Vostochno-Kazakhstanskiy ekonomicheskiy rayon. Zyr'yanovskiy svintsovyy kombinat.

RYBERT, V.F., gornyy inzh.; PUSTOVALOV, A.I., gornyy inzh.; PONOMAREV, L.F., gornyy inzh.; YEROFEYEV, I.Ye., gornyy inzh.; YERHOLAYEV, A.G., gornyy inzh.

Making use of industrial potentialities in a mine of communist labor. Gor.zhur. no.1:6-9 Ja '64. (MIRA 17:3)

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1. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza Zyryanovskogo kombinata.

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YEROPEYEV, I.A.

Dynamics of blood pressure in diphtheria in children. Sovet.med. no.4:9-11 Apr 51. (CIML 20:8)

1. Of the Children's Clinic, First Moscow Order of Lenin Medical Institute (Director-Honored Worker in Science Frof. V.I. Molchanov, Active Member of the Academy of Medical Sciences USSR), attached to the Children's Hospital imeni Rusakov.

81 UR 2005 - 201

SEVOST'YANOVA, G.A.; YEROFEYEV, L.A.

Characteristics of thyroid function in patients with a diencephalic syndromes. Zhur. nerv. i psikh. 61 no. 1:36-43 61. (MIRA 14:4)

1. Kafedry nervnykh bolezney (zav.- prof. M.B. TSuker) i meditainskoy radiologii (zav.- prof. V.K. Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

(THYROID GLAND) (DIENCEPHALON-DISEASES)

YEROFEYEV, L.A.; SEVOST'YANOVA, G.A.

Study of the function of the thyroid gland using radioactive iodine I¹³¹ in lesions of the diencephalon. Sov.med. no.3:73-78 162. (MIRA 15:5)

1. In kefedry meditainskoy radiologii (Mav. - prof. V.K. Modestoy) i kafedry nervnykh bolesney (Mav. - prof. N.S. Chetverikov) TSentral nogo instituta usovershenstvovaniya vrachey.

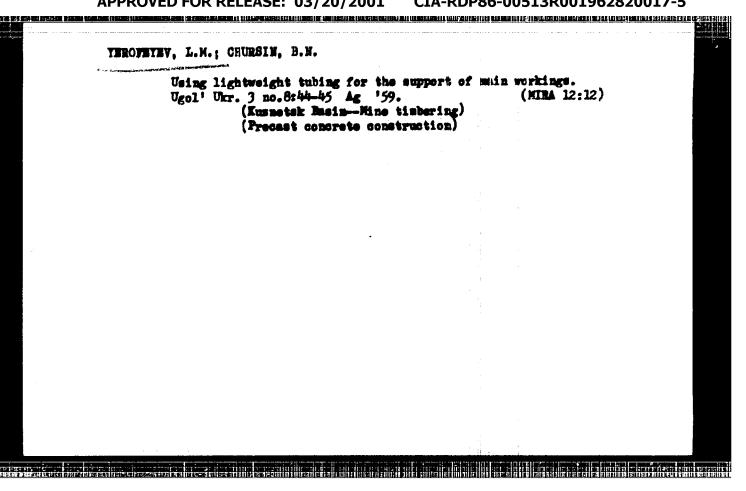
(THYROID GLAND) (IODINE--ISOTOPES)

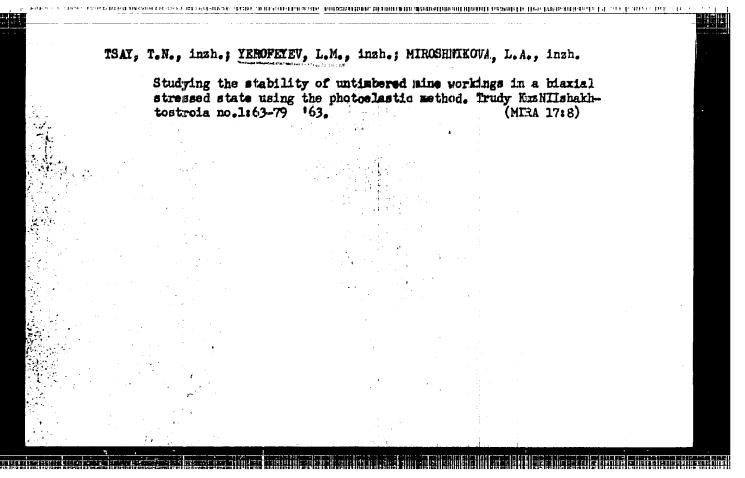
(DIENCEPHALON-DISEASES)

YEROFEYEV, L.A.; TARASOVA, R.Ye.

Study of thyroid gland function using radioactive iodine (J131) in patients with otosclerosis. Vest. otorin. 25 mg.5148-50 S-0 '63. (MIRA 17:4)

1. Iz kafedry meditsinskoy radiologii (sav. - prof. V.K. Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey i Nauchno-issledovatel'skogo instituta bolezney ukha, nosa i gorla (dir. - prof. N.A. Bobrovskiy), Moskva.





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YEROFEYEV, L.M., inzh.; TSAY, T.N., inzh.; BAEAYAMIS, A.A., inzh.; KARAGOD, V.P., inzh.; MEDVEDEV, M.K., inzh.

Instruments developed by the Kusnetsk Scientific Research Institute for the design and construction of mines in the coal industry for determining rock movements and the intensity of rock pressure. Trudy Kusniishakhtostroia no.1:80-84 163.

(MIRA 17:8)

	N. YEROFEYE	医病疾性神经治疗的 (10.00000000000000000000000000000000000				
	Once again on the possibility of reducing the dize of nine shaft supports in the Kuznetsk Basin. Vop.gor.davl. no.22149-52 164.					
		ssledovatel sk predpriyatiy,		roitel ^l atva ngo	(MIRA 18:6) l'nykh i	
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YEROFEYEV, L.M., insh.; KARTASHOV, Yu.M., insh.; KUKSCV, N.I., insh.

Causes of cavings in workings lined with collapsible arched supports. Ugol'Ukr. 10 no. 1:19-20 Ja '66. (HIRA 18:12)

1. Nauchno-issledovatel'skiy institut stroitel'stva ugol'nykh i gornorudnykh predpriyatiy (for Yerofeyev). 2. Kusnetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Kartashov).

3. Sibirskiy filial Vsesoyuznogo nauchno-issledovatel'skogo marksheyderskogo instituta (for Kuksov).

ACC NRI AT7002122 (A) SOURCE CO.DE: UR/OOK

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AUTHORS: Yerofeyev, L. M.; Miroshnikova, L. A.

ORG: none

TITLE: Study of rock-pressure phenomena in the tunnel support-rock system

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 445-453

TOPIC TAGS: mining engineering, pressure effect, stress analysis

ABSTRACT: The general shortcoming of existing theories on rock pressures in mine workings involving rocks and tunnel supports is their failure to consider the parameters of the supports and the form of the mine working. The purpose of the present work is to study rock pressure in this system of tunnel support and rock for a single horizontal working with due consideration to these parameters. A plate was placed on a layer of sand (26 cm thick) and was then used as a base for two frames of the simulated tunnel support. One frame was made of optically active material, the other of slightly active plastic. Special plates were placed on the frames, bounding the tunnel or "working" and keeping out the sand used in loading. Stresses on the elements of the support were also determined by means of these plates. Experiments were carried out

Card 1/2

UDC: none

ACC NR: AT7002122

for different stresses and for differently shaped workings. Stresses in the elements of the supports for all models were determined by the photoelastic method. Results show that the bending moment on a support of an arched opening is but 1/8 that of a rectangular opening. This factor is of great importance in designing reinforced-concrete supports for mine workings. Computations of yield point by means of the simple models used proved to agree very well with measurements obtained in actual mine workings. Orig. art. has: 6 figures and 2 tables.

SUB CODE: 08/ SUBM DATE: 14Jun66/ ORIG REF: 011/ ATD PRESS: 5113

Card 2/2

YEROFEYEV, L. N., Cand Agric Sci (diss) -- "Analysis of the execution of projects for organizational-agricultural plans compiled by the forestry administration for the Leskhozes of the raw-materials base of the Kondopoga Cellulose-Paper Combine in the Karelian ASSR". Leningrad, 1959. 16 pp (Min Higher and Inter Spec Educ RSFSR, Leningrad Order of Lenin Forestry Engineering Acad im S. M. Kirov), 200 copies (KL, No 10, 1960, 134)

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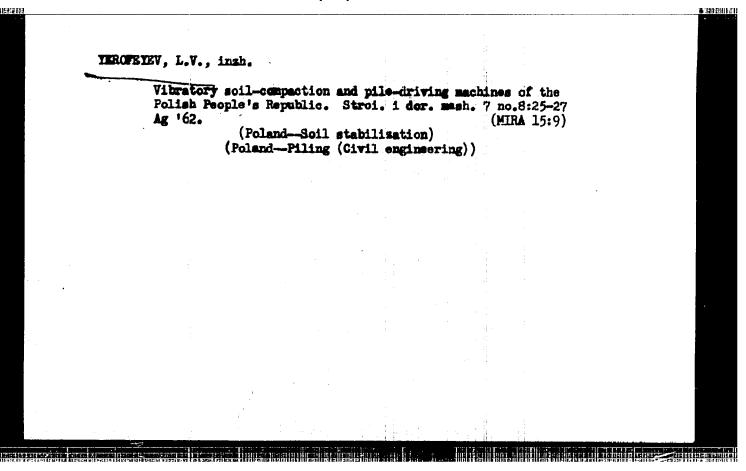
TETERUK, G.T.; ZAVYAZKIN, P.G.; ALIYEV, T.M.; ALIYEV, A.G.; MELIK-SHARHMAZAPOV, A.M.; ABULIS, B.K.; BARTEMEY, G.M.; YEL'KIR, A.J.; ROSTIN, V.J.; KHARKHARDIN, S.I.; SERGEYEV, A.I.; VARTANOV, S.Kh.; PRIM NEME, L.I.; MOLODTSOV, A.A.; SHMELEV, N.V.; ROVINSKIY, M.I.; ASBAROW, N.K.; YEROFEYEV, L.V.; RYARHIN, V.A.; ZELENIN, A.N.; BERKMAN, I.I.

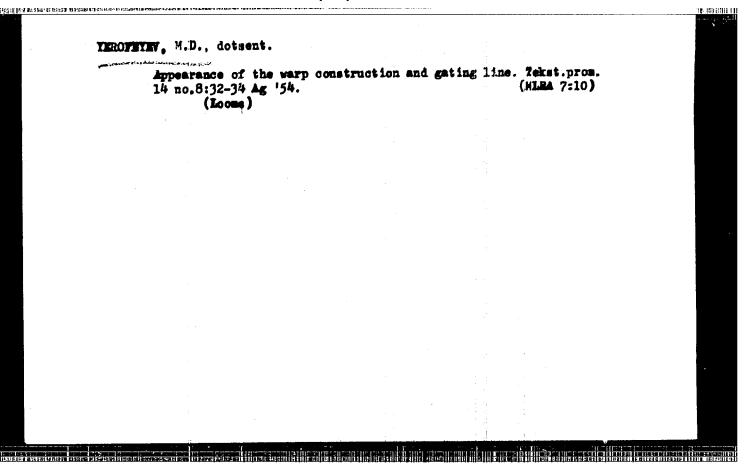
Patent certificates for Soviet inventions. Stroi. triboprov. 9 no.5: 35-36 My '64. (MIRA 17:9)

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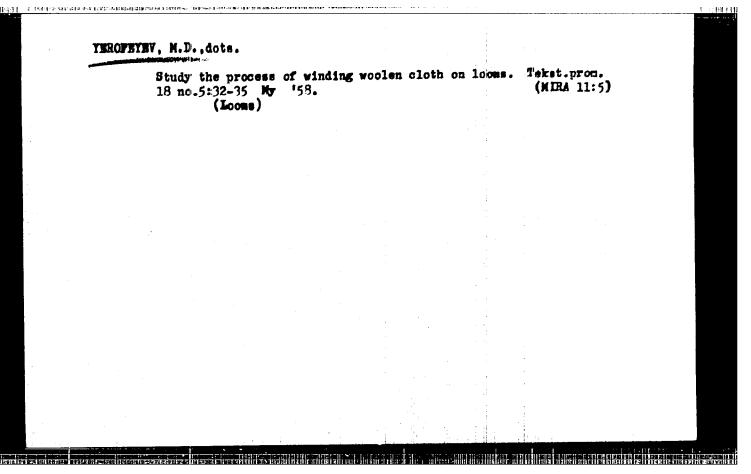
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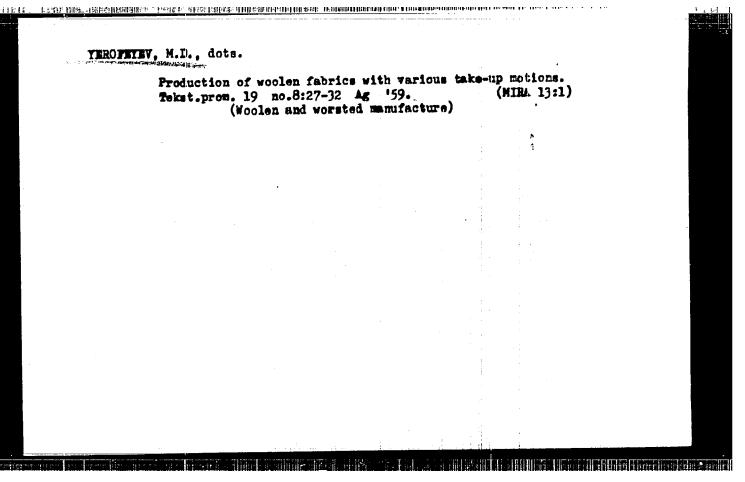


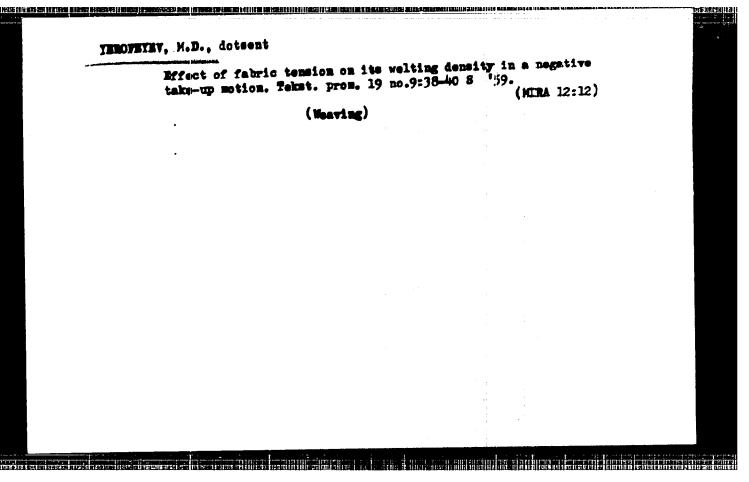


YEROFEYEV, M. D.: Master Tech Sci (diss) -- "A study of the process of rolling up cloth on a loom". Moscow, 1958. 22 pp (Min Higher Educ USER, Moscow Textile Inst), 150 copies (KL, No 11, 1959, 119)

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Tall Characteristics and analysis and an annual control of the con

YEROFEYEV, M. I.

Social Sciences

Results of local planning of production cost in building organizations of the Karaganda mine construction combine. (Ministerstvo ugol'noi promyshlennosti SSSR, TU po ekspluatatsii, BTI). Moskva, Ugletekhizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress,

1953. Unclassified. November

YEROPEYEV, M. I.

YEROFEYEV. M. I.

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YEROFEYEV, M. I. PLANTROVANIYE RENTAHEL NOY RABOTY STROITEL NYKH ORGANIZATSIY. K., 1954 64 S.; 1 L. SKHEM 22SM. (M-V) UJOL(NOY PROM-STI SSR TEKHN. UPR. TSENTR. IN-T TEKHN INFORMATSII) 8.000 EKZ HESPL --(55-2268) P 69.0031. 658.51

SO: FNIZHANYA LYTOPIS NO. 6, 1955

TEROFETEV. H., kand. tekhn. nauk, dots.

Methods for meving portal cranes. Mor. flet 19 ne.5:17-21 My '59.
(MIRA 12:7)

1.Cdesskiy institut inshenerev merskage flets.
(Granes, derricks, etc.)

THOFFIEW, H., dots.; LEDOVSKIKH, I.; RAKHLIS, I., insh.

Automatic recording of crane performances by means of a cyclograph.

Mor. flot 20 no.11:10-13 m '60. (MIRA 13:11)

1. Olesskoye vyssheye inshenernoye morskoye uchilishche (for Ierofeyev).

2. Starshiy inshener po mekhanisatsii 2-go rayona Odesskogo porta (for Iedovskikh).

3. Otiel mekhanisatsii Odesskogo porta (for Bakhlis).

(Oranes, derricks, etc.)

(Recording instruments)

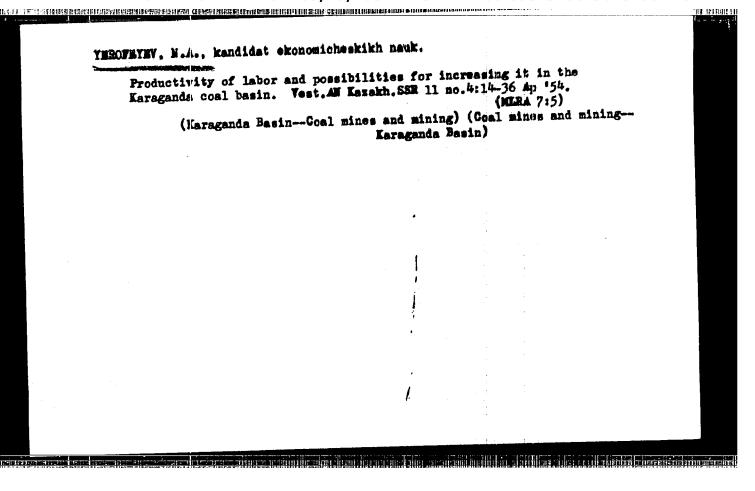
	Coordination of	the gun crew.	Voen.vest.	40 no.2:8	5-87 F '61. (MIRA 14:2)
		(Aircraft art	illery)		
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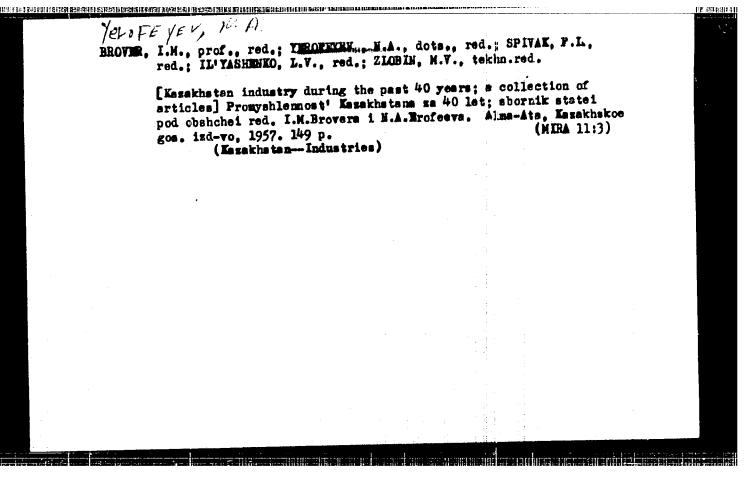
LOBOV, B.; SHALASHOV, V.; YEROFEYEV, N.

Three years have passed. Othr. truda 1 sots. strakh. 5 no.8:14-15 Ag 162. (MIRA 15:7)

l. Zamestitel nachalinika kusmechnogo tsekha moskowskogo savoda imeni Iikkacheva. (for Lobov). 2. Predsedatel komissii okhrany truda l-go moskovskogo chasovogo zavoda (for Shalashov). 3. Predsedatel komissii okhrany truda fabrichnogo komiteta i-y moskovskoy sittsenabivnoy fabriki (for Kerofeyev). (Moscow-Industrial hygiene)

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YERGKEYEY, N.A.

POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, W.Kh.;

KLYAROVSKIY, V.M.; KINE, O.G.; VAKHEUSHEV, V.A.; SHAPIRO, I.S.,

starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUKHIN, A.S.; GARNETS,

N.A.; SPEYT, Yu.A.; SELIVESTROVA, M.I.; RUTKEVICH, V.G.; PYKOV, G.F.;

BIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSEKIN, A.S.;

PAN, P.Ya.; HUSANOV, M.G.; YAZBUTIS, B.A.; HOZHDHSTVENSKIY, Yu.V.;

SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LHBHDEV, T.I.;

KAMENSKAYA, T.Ya.; MASLENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.;

MITROPOL'SKIY, A.S.; LUKIN, V.A.; ZIMIN, S.S.; KCREL', V.G.;

DEHBIKOV, I.V.; BAHDIN, I.P., akademik, nauchnyy red.; GORBACHEV,

T.F., nauchnyy red.; YEROFEYEV, N.A., nauchnyy red.; ORBACHEV,

nauchnyy red.; SKOBNIKOV, W.L., Hauchnyy red.; SRITHOV-VERIM, S.S.,

nauchnyy red.; Geceased]; STHUMILIN, S.G., akademik, nauchnyy red.;

KHLEBBIKOV, V.B., nauchnyy red.; CHINAKAL, W.A., nauchnyy red.;

SLEDZYUK, P.Ye., red.toma; SOKOLOV, G.A., red.toma; BOLDYREV, G.P.,

red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; EUDASHEVA, I.G.,

[Iron-ore deposits of the Altai-Sayan region] Zhelesorudnye mestoroshdeniia Altae-Saianskoi gornoi oblasti. Vol.1. Book 1. [Geology] (Continued on next cord)

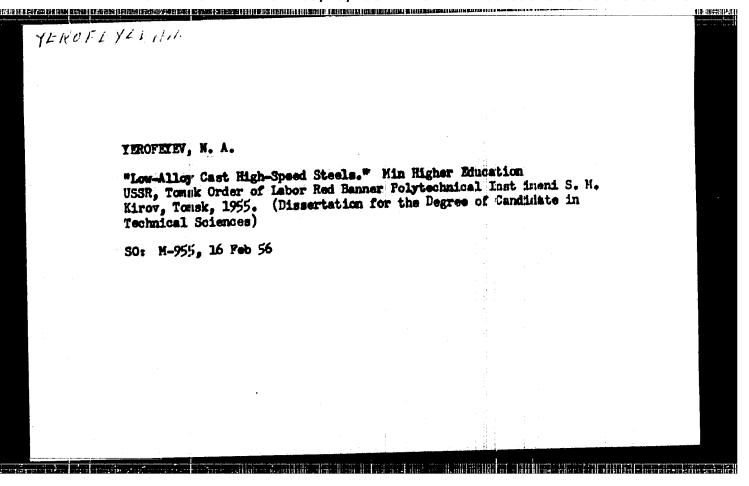
POSPELOV, G.L. (Continued) Card 2.

Geologiia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. 330 p.

(MIRA 12:2)

1. Akademiya nauk SSSR. Meshduvedomstvennaya postoyannaya komissiya po shelezu shelezu. 2. Postoyannaya meshduvedomstvennaya komissiya po shelezu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov). 3. Zapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushav, Pospelov.) 4. Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich), 5. Krasnoyarskoye geologicheskoye upravleniye (for Pan). 6. Zapadno-Sibirskiy geologo-razvedochnyy trest Chermstrazvedka (for Prodanchnk). 7. Sibirskiy geofizicheskiy trest (for Pipar). 8. Veesoyuznyy geologicheskiy nauchno-fizicheskiy trest (for Pipar). 8. Veesoyuznyy geologicheskiy nauchno-fiseledovatel'skiy institut (for Dodin). 9. Gornaya ekspeditsiya (for Mitropol'skiy). 10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Inkin). 11. Tomskiy politekhnicheskiy institut (for Zimin). 12. Sibirskiy metallurg.institut (for Korel'). 13. Trest Sibneftegeofisika (for Derbikov). (Altai Mountains-Iron ores) (Sayan Mountains-Iron ores)

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TEROPEYEY, N.A., insh.

Effect of carbon content on the phase constitution and some characteristics of cast, lev-alloy, rapid steel. Intr. vys. ucheb. sav.; chern. met. 2 no.4:79-83 Ap 159. (MIRA 12:8)

1. Tomskiy politekhnicheskiy institut. Rekomendovano kafedroy metallovedeniya i termicheskey chrabotki metallov Tomskogo pelitekhnicheskege instituta.

(Toel steel--Metallegraphy)

8/148/66/000/004/004/006 A161/AD29

AUTHOR:

Yerofeyev, N. A.

TITLE:

Chrome and Vanadium in Cast Low-Alloy High-Speed Steel Tungsten,

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Chernaya metallurgiya,

1960, No. 4, pp. 137-144

The effect of single alloy constituents on the properties of highspeed steel is not yet sufficiently known. The article given information on TEXT: experiments to this end. Eight steel compositions with different centent of W, Cr and V were investigated (Table 1) with the use of the narbide analysis developed by N.M. Popova (Ref. 6). Separated carbide sediments were investigated by the X-ray method. The experimental techniques are briefly mentioned, the results are discussed in detail concerning the dependence of hardness, redhot strength, quantity of carbides and distribution of vanadium and of tungsten at different content of vanadium and tungsten. It was observed that the quantity of alloy element needed for equal distribution between solid solution and carbides is inversely proportional to the carbide-forming capacity of the element and to the carbon content in steel. In all investigated steel grades the

Card 1/3

8/148/60/000/004/004/006 a161/a029

Tungsten, Chrome and Vanadium in Cast Low-Alloy High-Speed Steel

Or centent in solid solution dropped in the annealing process by 30-40 %, the W content by 50-60 %, and V by 65-75 %. The share of alloy element that passed from solid solution into carbides in the annealing process did not depend on the initial content of this element in the solid solution and was directly proportional to its carbide-forming capacity. The distribution of the carbide-forming element may be "favorable" or "unfavorable". The optimum V content for steel "A" and "D" ("B") (Table 1) proved to be 3.0 %; the optimum W content for three other grades was 12-13 %. It had been stated formerly (Ref. 8) that for three other grades was 12-13 %. It had been stated formerly (Ref. 8) that the optimum for the high-speed steel grade "P.18" ("B-18")) and a higher W content could not improve the cutting properties. There are 3 figures, 3 tables and 9 Soviet references.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

SUPMITTED: July 18, 1959

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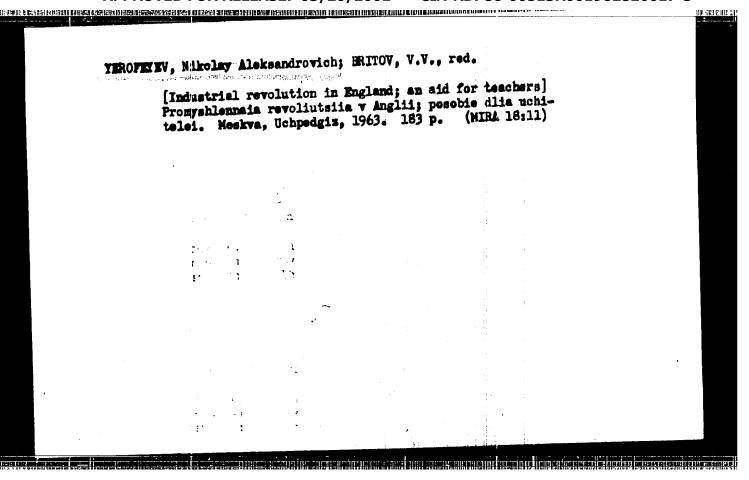
Tungsten, Chrome and Vanadium in Cast Low-Alloy High-Speed Steel

Chemical Composition and Hardness of the Investigated Steels (Table 1):

Conditional	Chemical Composition, %				Hardness after Eardening (Casting) According to		
Designation of Steel	С	W	Cr	v	Rockwell		
A B C D E F G	1.12 1.15 1.20 1.18 1.12 1.14 1.17	3.97 3.65 4.11 2.00 5.01 7.93 3.71 3.86	4.36 4.58 4.42 4.10 4.29 3.69 8.16 8.01	1.45 3.04 4.26 2.72 2.61 2.56 2.11	56 61 63 61 62 64 55 57		

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EROFEYEV

USSR/Physiology of Plants - Respiration and Metabolism.

: Ref Zhur - Biol., No 3, 1958, 10388

Anthor Tevreinova, T.H., Yerofeyev, H.G.

Inst Moscow University

Amylase in Acorns Stored Under Various Conditions. Mitle

: Vestn. Mosk. un-ta, ser. biol., pockvoved., gool., geogr., Orig Pub

1956, No 2, 39-43.

When Quercus robur acorns were kept in damp sand exposed **Metract** to air Oo in temperature, the emplace activity in the seed-

lings and cotyledons increased in April, and the germination was good. Under the same conditions in jair with Eg or CO2 there was an increase in the ferment activity in the cotyledons and a gradual disappearance of it in the shoots which also ceased germinating. Acorns which were best in

sieves in a cement well at a temperature of 50-100 above

Card 1/2

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USSR/Physiology of Plants - Respiration and Metabolism.

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: Ref Phur - Biol., No 3, 1958, 10388

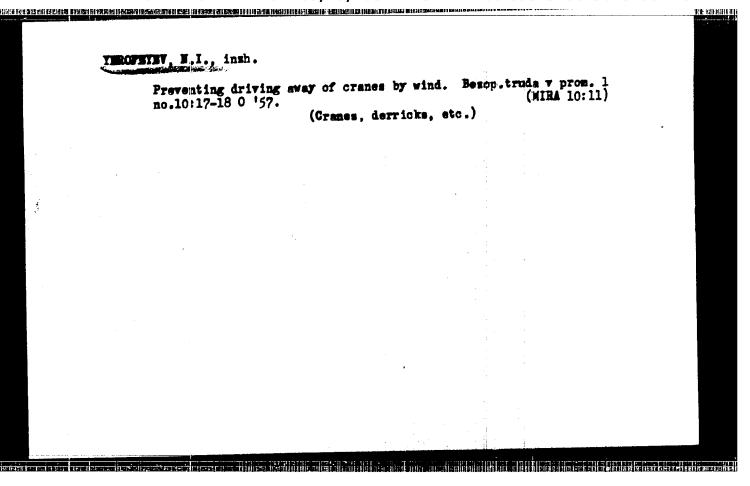
sero maintained normal germination and emplace activity in the shoots and cotyledons. In a hermatically scaled container (500 cm³ of air for 3 kilograms of seei) an increase in the ferment activity in the shoots was noted as well as heightened sprouting energy. The anylass of the acorns was equally potent in breaking down accorn and potato starch.

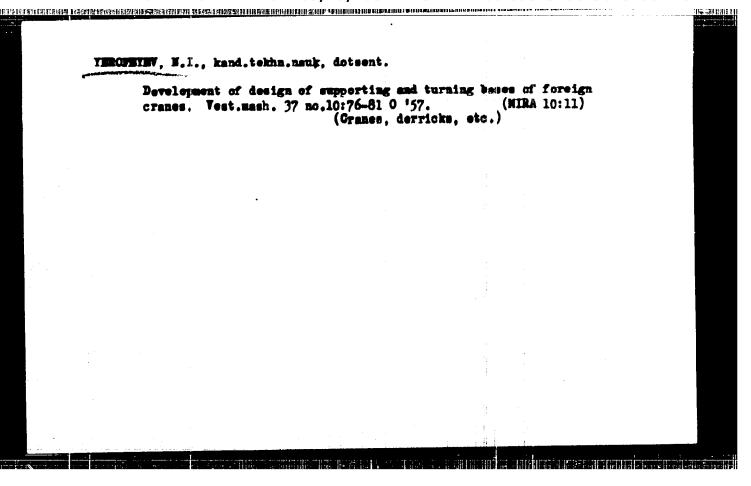
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[Means of preventing accidents with jib cranes] Sposoby predupreshdenia avarilysh povreshdenia strelovysh kranov. Moskva, Ind-vo
shdenia avarilysh povreshdenia strelovysh kranov. Moskva, Ind-vo
(MIRA 11:9)

"Morskoi transport," 1958. 138 p.

(Granes, derricks, etc.)

VENCELEUN: I

TEROFSIEN, N., dots.; TURLEMED, V.

Wethods of perating "Abus" gantry crance. Mor. flot 18 no.2:15-18
(MIRA 11:2)

1.Odesskiy institut imshenerov morskogo flota (for Terofsyev).
2.Starshiy kranovshchik Odesstogo porta (for Turlenko).
(Granes, derricks, etc.)

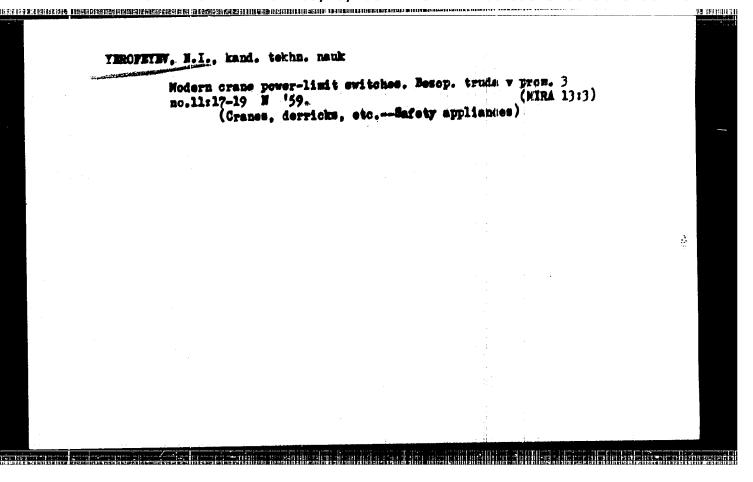
TEROTZYSV, M., kand. tekhn.nauk, dots.

Bifect of the dynamic characteristics of eleving on the cycle length of clamshell gantry cranes. Mor. flet 18 no.9:9-12 5 158.

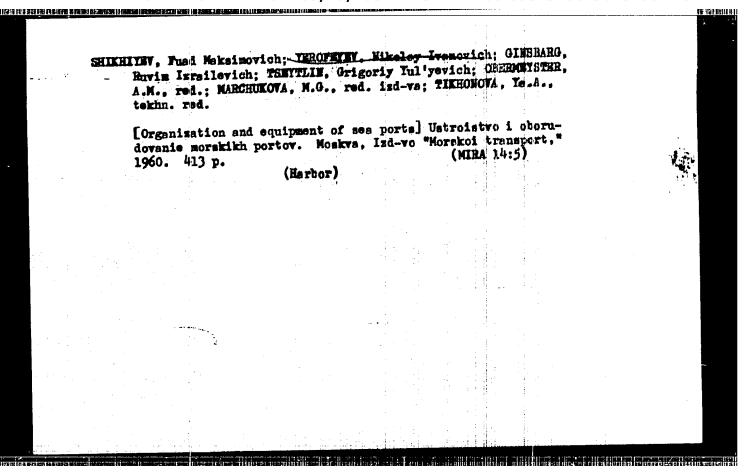
(MIRA 11:10)

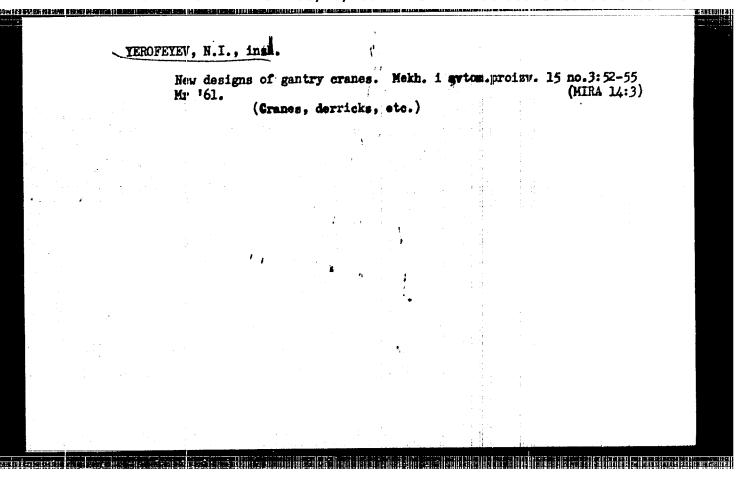
1.Odesskiy institut inshenerov morskage flota.

(Granes, derricks, etc.)



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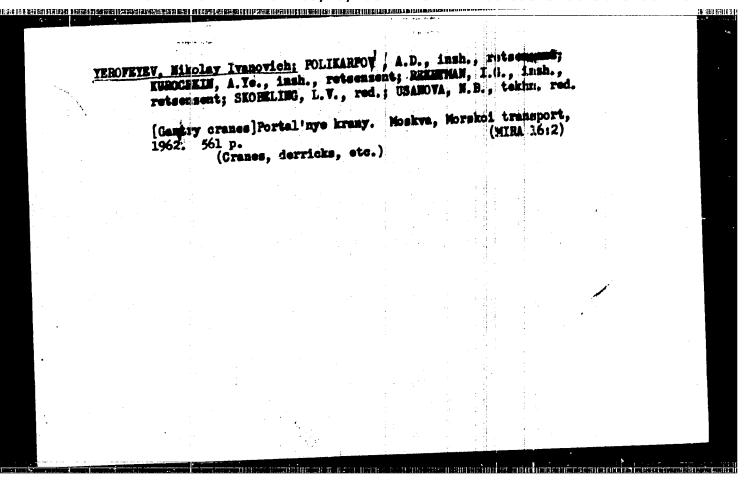


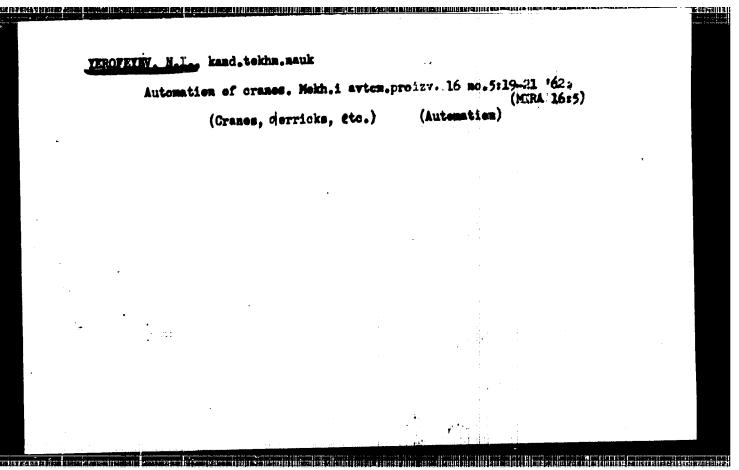
YEROFE'EV, N.I., kand.tekhn.nauk; MILYUKOV, P.M., tekhnik; CEREZAHOV, P.I., inzh.; SWRKOVSKIY, E.V.

Program control of a hoisting machine. Mekh. i avtom. proizv.

(MIRA 14:7)

(Hoisting machinery) (Automatic control)





YEROFEYEV, N.I., kand. tekhn. nauk

Automation of hoisting and conveying equipment. Mekh. 1 avtom. (MIRA 16:10)

proizv. 17 no.8:53-55 Ag *63.

ACCESSION NR: AP4044122

5/0118/64/000/008/0021/0025

AUTHOR: Yerofeyev, N. I. (Candidate of technical sciences); Obrezanov, P. I. (Engineer); Smrkovskiy, E. V. (Engineer); Milyukov, P. M. (Technician)

TITLE: Program control of a gantry crane

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SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 8, 1964, 21-25

TOPIC TAGS: program control, automatic control, crane, automatic control system

ABSTRACT: The automation of a grab-bucket gantry crane used for loading-unloading a ship (or a rr car) is described. Prior to automation, the crane operating cycle used to be 60-90 sec, and the crane operator used to perform up to 20,000 switching operations per 8-hr shift. As a result, the crane productivity used to be 15-20% lower than that technically feasible. A magnetic-tape-recorded program control based on a frequency-code system was introduced. A

Card 1/2

ACCESSION NR: AP4044122
simplified connection diagram is presented, and the principal functions of the automatic control (winch and bucket operation, preliminary commands, boom automatic control (winch and bucket operation, preliminary commands, boom movement, slewing) are briefly explained. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Odesskiy institut inzhenerov morskogo flota (Odessa Institute of

Marine Engineers)

SUBMITTED: 00

SUB CODE: IE NO REF SOV: 000 OTHER: 000

Card 2/2

TEROFEYEV, N.I., kand. tekhn. nauk

New methods for the design and investigation of cranes.

Mekh. 1 avtom. proizv. 18 no.4:56-57 Ap*64. (MIRA 17:5)

YEROFEYEV. N.I., kand. tokhn. nauk; OBRETANOV, P.I., insh.; SHRKOVEKIY,
E.V., inzh.; MILYUKOV, P.M., tekhnik

Program control of a gantry crane. Mekh. i avt. pro 27. 18

no.8:21-25 Ag '64.

87466

9.9842-9.9160 (1041,1060)

3/169/60/000/012/004/010 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 12, pp. 216-217, # 16258

AUTHORS:

Yerofeyev, N. M., Dzhemilev, G. G., Perelygin, V. P., Petinov, V. P.

TITLE:

First Results of Radiotechnical Observations of the Motions of Non-uniformities in the Ionosphere (Winds) Over Ashkhabad at Altitudes of 200-300 km

PERIODICAL: V sb.: Dreyfy i neodnordnosti v ionosfere. No. 1, Moscow, AN SSSR, 1959, pp. 34-39 (English summary)

ot.

TEXT: Experimental results are presented of a study of the winds in the ionosphere by the spaced reception method with small base, which was performed at Ashkhabad in the period from January 1 to June 30, 1958. The equipment is briefly described (output 2 kw in the pulse, pulse duration 150 Msec, base of the reception antenna system 100 m, photographical recording, film feed speed 15 cm/min). The processing of the records was carried out by the similar-fading method; it is shown that 20-30% of the observations yield to processing by this method. The distribution of nonuniformity drift speeds in the F region is of approximately

Card 1/2

87466 \$/169/60/000/012/004/010 A005/A001

First Results of Radiotechnical Observations of the Motions of Nonuniformities in the Ionosphere (Winds) Over Ashkhabad at Altitudes of 200-300 km

Maxwellian from. The average arithmetical and the observed probable values of the drift speed are 69 and 58 m/sec respectively. The preferred motion direction is westward. The diurnal course of the velocity vector components is weakly expressed, but shows the tendency to predominating 24-hours-period. — There are 10 references.

E. S. Kazimirovskiy

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

TEROFETEV, N.M.

Diffuseness of the V, layer of the ionosphere over Ashkhahad and its connection with solar activity. Isv.AN Turk.SSR no.3:10-14 159. (MIRA 12:11)

1. Institut fisiki i geofisiki AN Turkmenskoy SSR. (Ionosphere) (Sunspots)

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9.9110 (2603, 1041, 1046)

89798 8/169/61/000/003/016/022 A005/A005

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 3, p. 30, # 3G268

AUTHOR:

Merofevey, N. M.

TITLE:

Certain Characteristics of the F2-Layer Above Ashkhabad

PERIODICAL:

"Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te", 1959, No. 37,

pp. 326-329

TEXT: Results from the analysis of certain characteristics of the F2-layer are described. Special attention was paid to the phenomenon of diffuse and scattered reflections which are joined by the general term "multiplicity of reflections" (P). The number of events of appearance of the different anomalies in the F2-layer (ramified recording, triple splitting, etc.) in year is very small and does not show diurnal and seasonal dependence. The appearance of P-reflections has diurnal and seasonal course, depends on the latitude and on the illumination intensity by solar rays in the F-region. The conditions of appearance of P-reflections become worse if the illumination of the F-region set in. An inverse dependence of the appearance of P-reflections on the course of solar activity is

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Certain Characteristics of the F2-Layer Above Ashkhabad A005/A005

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noted for Ashkhabad, but a direct dependence for the Tiksi bay. The appearance of P-reflections is associated with the permeation of corpuscular streams. There are 6 references.

N. B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

89080 8/169/61/000/001/008/011 A005/A001

9.9110 (also 1041, 1046, 1060)

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 1, p. 27, # 1G240

AUTHOR:

Yerofeyev, N. M.

TITLE:

Experimental Data on the Dependence of the Limiting Frequency of the Sporadic E-Layer of the Ionosphere on the Technical Data of the

Apparatus of the Ionospheric Station

PERIODICAL:

"Izv. AN TurkmSSR. Ser. fiz.-tekhn., khim. i geol. m., 1960, No. 1,

pp. 26 - 31

TEXT: At the ionospheric station of Ashkhabad, measurements of $E_{\rm S}$ were carried out with a various power of the transmitter. During July 1950, the transmitter operated at two fixed powers alternating every other day. Hereat, during 15 days, hourly values of $E_{\rm S}$ were obtained for one power and for the same number of days, values of $E_{\rm S}$ were obtained for a power four times greater. The median values of $E_{\rm S}$ for the greater power proved to be higher by 0.64 Mc, and the percentage of the appearance of $E_{\rm S}$ increased from 90.0 to 92.4. During the spring-summer period in 1950, experiments were carried out of continuous variation in power, which made it possible to obtain an empirical formula determining

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Experimental Data on the Dependence of the Limiting Frequency of the Sporadic E-Layer of the Ionosphere on the Technical Data of the Apparatus of the Ionospheric Station

the change in fE_8 with changing power $f_2E_8 = f_1E_8 + 0.25 \sqrt{n-1}$, where f_1E_8 and f_2E_8 are limiting frequencies of E_8 for powers P_1 and P_2 , $n = P_2/P_1$ with $P_2 > P_1$. The author expresses the assumption that the inverse dependence of fE_8 on the 11-yearly cycle of the solar activity can be explained (if only partially) by an absorption increase.

T. Kerblay

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

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ACCESSION NR: AR3006922

S/0169/63/000/007/A041/A041

SOURCE: RZh. Geofizika, Abs. 7A191

AUTHOR: Yerofeyev. N. M.

TITLE: Presence of disturbances in the E region of the ionosphere over Ashkhabad

CITED SOURCE: Dokl. Nauchn. simpoziuma po ionosfere, 1960. Rostov-na-Donu. Rostovsk. un-t, 1961, 108-112

TOPIC TAGS: ionosphere, disturbed state of ionosphere, perturbation, disturbance, E region, F region, equinoctal maximum

TRANSLATION: Cases of the deviation of Δ for \geq 15% from the median in the course of two hours occurred during a disturbed state of the E layer. Patterns in the appearance of perturbations in the E layer at Ashkhabad during 1957 and 1959 are examined. Macimum perturbation in the diurnal variation occurs in the morning and evening hours. Seasonal variation has equinoctal maximums. The

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S/169/61/000/010/043/053 D228/D304

AUTHORS:

Bogdanova, M. D., Yerofeyev, N. M., and Klimova, Z. N.

TITLE:

Ionosphere characteristics over Ashkhabad in January

1960

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1961, 28, abstract 10G168 (Izv. AN TurkmSSR, Ser. fiz.-tekhn.,

khim. i geol. n., no. 1, 1961, 74-76)

TEXT: The results of the processing of observations at the Ashkhabad ionospheric station for January 1960 and their comparison with the forecasts and observations in January 1959 are examined. The observed f_0F2 were lower than the forecasted values by an amount of up to 53%; the greatest deviations were observed in the noctumal hours. In 1960, f_0F2 were considerably (26% by night, 6% by day) lower than in January 1959, which is explained by the lessened solar activity. In comparison with

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Ionosphere characteristics...

January 1959, the number of $E_{\rm g}$ appearances grew from 35 to 42%--largely at the expense of the increase in the number of $E_{\rm g}$ with low limiting frequencies. The degree of ionospheric disturbance in January 1960 was somewhat higher than in January 1959. The dates of disturbances, corresponding to f_0 F2 deviations of \Rightarrow \pm 20%, and the number of positively and negatively disturbed hours in January 1959 and January 1960 are given. The quietest days (January 30 and 31) in respect of the magneticionospheric activity are distinguished. Nh-profiles are calculated for January 31 by the Kelso method with an account of the magnetic field. \triangle Abstracter's note: Complete translation.

Card 2/2

\$/169/61/000/012/086/089 D228/D305

AUTHORS:

Yerofeyev, N. M., Klimova, Z. N., and

Stepanova, M. B.

TITLE:

Characteristics of the ionosphere above

Ashkhabad in February 1960

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1961, 25, abstract 12G200 (Izv. AN TurkmSSR. Ser. fiz.-tekhn., khim. i geol. n., 1961, no. 2,

100-103)

TEXT: The results are given for the processing of the observations of the ionospheric station at Ashkhabad in February 1960 and for their comparison with the forecast and observations of February 1959. The values of foF2 observed in February 1960 were below the forecast values (by up to 27%), the greatest deviations being observed in the night and morning hours. In

Card 1/2

Characteristics of the ...

S/169/61/000/012/086/089 D228/D305

February 1960, the magnitudes of foF2 were lower than in February 1959. The percentage appearance for Es fell from 44% in February 1959 to 30%. The ionospheric disturbances of February 1960 are described. The degree of disturbance in February diminished in comparison with January 1960 and February 1959. The quietest day in respect of the magneto-ionospheric activity (24/II) was distinguished, and Nh-profiles were calculated for it. Abstracter's note: Complete translation.

Card 2/2

BERKELIYEV, M.; YEROFEYEV, N.M.; KLIMIVA, Z.M.; STEPANUVA, M.B.

Characteristics of the ionosphere over Ashkhabad in March 1960.

Isv.AN Turk.SSR.Ser.fis.-tekh., khim.i geol.mank no.3:92-95 '61.

(MIRA 14:7)

1. Pisiko-tekhnicheskiy institut AN Turkmenskoy SSR.

(Ionosphere)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820017-5"

YEROFEYEV, N.M., OVEZGEL'DYYEV, O.

Horizontal drift of the Es layer as observed in Ashkhshad. Izv.
AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. mauk no.4:18-25 '61.
(MFRA 14:12)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy BSR.
(Ionospheric research)

YEROFEYEV, N.M.; LEZHNEVA, A.V. Statistical nature of the fluctuations of ionospheric parameters. Izy. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.4: (MIRA 14:12) 26-34 161. 1. Fiziko-tekhnicheakiy institut AN Turkmenskoy BSR. (Ionospheric research)

> APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820017-5"

BERKELIYEV, M.; YEROFEYEV, N.M.; STEPANOVA, M.B.

State of the ionosphere over Ashkhabad in April, 1960. Izv.
AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.4:106-109
161. (MIRA 14:12)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR. (Ashkhabad—Iomosphere)

YEROFEYEV, N.M.; STEPANOVA, M.B.

Effect of the level of solar activity on the probable occurrence of the sporadic E layer (according to observations made in Ashkhabad). Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol.nauk no.5:32-38 61. (MIRA 14:11)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR. (Sporadic E (Ionosphere)) (Sun)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820017-5"

BOGDANOVA, M.D.; YEROFEYEV, N.M.; STEFANOVA, M.B.

Characteristics of the ionosphere over Ashkhabad in May 1960. Izv.
AN Turk. SSR. Ser. fiz.-tekh., khim. i geol.nauk no.5:114-117 '61.

(MIRA 14:11)

1. Fiziko-tekhnicheskiy institut AN Turkmenskov SSR.

(Ionosphere)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820017-5"

YEROFEYEV, N.M.; OVEZGEL'DYYEV, O.

Parameters of small-scale inhomogeneities in the sporadic E layer; according to observations made in Ashkhabad. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk nc.6:39-45 [6]. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSE. (Sporadic E (Ionosphere))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820017-5"

BERKELIYEV, M.B.; YEROFEYEV, N.M.; STEPANOVA, M.B.

State of the inosphere over Ashkhabad in June 1960. Zzv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.ú:107-110 *61. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR. (Ashkhabad-Ionosphere)

YEROFEYEV, N.M.; PERELYGIN, V.P.

Relationship between the magnitude and direction of the drift speed of ionospheric fregularities and the true altitude in the F₂ layer of the ionosphere. Izv. AN Turk. SSR. Ser. fiz.—tekh., khim. i geol nauk no.6:110-112 '61. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR. (Ionosphere)

O

S/169/62/000/003/092/098 D228/D301

9,9//0 Aug²ors:

Yerofeyev, N. M. and Dubrobskaya, Ye. K.

TITLE:

The question of the degree of diffusion of the reflec-

tion from the ionosphere's Fo-layer

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 3, 1962, 21, abstract 3G141 (Tr. Fiz..tekhn. in-ta, AN TurkmSSR, 7,

1961, 156-161)

TEXT: The Ashkhabad data for 1950-1954, and also those of observations at 8 stations in the Soviet Union for 1950-1951, were processed. Contour maps of the probability of the appearance of diffusive (F) reflections, on which the diurnal and the seasonal relationship is evident, were constructed. The maximum probability of F-reflections occurs at night. The time of the maximum shifts from 01 hr. in high latitudes to 03 - 04 hr. at Ashkhabad. The number of cases of F-reflections diminishes as the latitude decreases. The seasonal course of the likelihood of F-reflection appearances differs for different latitudes. A summer maximum, which is absent Card 1/2

5/169/62/000/003/092/098 D228/D301

The question of the degree ...

in middle and high latitudes, is recorded at Ashkhabad. This is explained by the dependence of the F-reflections on the ionosphere's illumination. It is suggested that corpuscular flows from the sun are the agents inducing F-reflections. Abstracter's note: Complete translation.

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962820017-5"

34355 \$/203/61/001/006/014/021 D055/D113

9,9110

AUTHORS:

Yerofeyev, N.M., and Ovezgel'dyyev, O.

TTTLE:

The fine structure and movement of the sporadic E layer

PERIODICAL: Geomagnetizm i aeronomiya, v.1, no. 6, 1961, 942-948

TEXT: This article systematizes results obtained by other authors in order to give a clearer picture of the relationship of several small non-uniformities in the sporadic E layer to the time of day and the degree of disturbance in the Earth's magnetic field. It is shown that, in view of its fine structure, it would be more appropriate to divide this layer into diurnal and nocturnal E_S layers for medium latitudes. Recording apparatus at Ashkhabad which had been used from January 1958 to measure ionospheric drifts in the region of the F layer was adapted for observation of drifts at the height of the E layer. Transmitting and receiving polarization antennae were set up which practically excluded one of the signal components. Three receiving antennae were fixed on the vertices of a right-angled isosceles triangle whose catheti, 100 m long, were orientated N-S and E-W.

Card 1/6

S/203/61/001/006/014/021 D055/D113

The fine structure ...

Divergence between the geographical and magnetic meridians was about 4°. Observations of E_S were made, if it was present, every hour from June to September 1960 on frequencies of 4.1±0.9 Mc. Data were processed by a September 1960 on frequencies of 4.1±0.9 Mc. Data were processed by a CTPE NA -3"("Strela-3") electronic computer at the Vychislitel nyy tsentral N SSSR (Computation Center, AS USSR). The most probable figures for speciand horizontal direction of E_S are as follows: for the period 06-10 hours and horizontal direction 100°; 10-18 hours - 64 m/sec, 100 and 230°; 18-2 hours - 84 m/sec, 100 and 195°; 22-06 hours - 86 m/sec, 215 and 290°. Data relating to the thin structure of E_S are given in table 3:

Card 2/6

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ne fine st	ructure	S/203/61/001/006/014/021 D055/D113					
		Diurnal E _s	of type	Nocturnal	Es of type		
		С	1	f			
	Average	2.9	2.5 2.1	2.2 1.8			
e	Median	2.2 42	40	58			
	Percent e < 2 m	232	160	128			
	Average	153	116	91			
din' m	Med:ian Percent ∆ < 50 m	0	2	12			
	Average	547	369	285			
ay. M	10 - 3 L a.m	448	297	174			
ax, m	Percent 4 < 200 m	20	31	<u>58</u> 52			
	Average	45	49 38	55			
o, m/sec	Median	40	0.7	0.8			
	Average ratio Vc/Vg	0.9 10	9.2	5.9			
~	Average	7.8	5.2	2.6			
c, sec	Median C < 3 sec	14	33	62			
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The fine structure ...

Table 4 gives more parameters of the fine structure - the degree of non-uniformity and the mean-square rate of chaotic motion of the non-uniformities $V_{\rm O}$:

		Diurne	al Eg of type	Noct	urnal E ₃
		c	1	h	f
β	Extremes Most frequent	0-5.5	0-5.5 1.4	0-4.0	0-5.0 1.3
Various laws of distribution pertaining, %	Rayleigh Gauss Others	27 24 49	18 24 59		17 31 52
Vo, m/sec	Extremes Average	0.1-9.0 1.6	0.3-18.0 3.5	0.3-2.5	0.4-24.0 5.8

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The fine structure ...

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Further parameters are given in table 5:

	Quiet days	Days of magnetic disturbance	Time
Degree of anisotropy a Life of non-uniformities $\mathcal{T}_{\mathbf{c}}$	1.8 8.4 sec	2.9 11.2 sec	Day
Large axis of the ellipse Δ_{max}	362 m	502 m	**
Small axis of the ellipse Δ_{\min}	197 m	199 m	" +
Speed of chaotic variations V _C	48 m/sec	39 m/sec	" 7
Degree of non-uniformity \beta Ditto	1.5 " 1.6 "	1.5:" 1.3 "	Day Night
Mean-square rate of chaotic motion V_0 Ditto	1.6 "	1.7" 5.6"	Day Night

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The fine structure ...

There are 5 tables, 5 figures and 11 references: 9 Soviet and 2 non-Soviet. The English-language references are: B.H. Briggs, G.J. Phillips. Proc. Phys. Soc., 1950, B 63, 907; G.J. Phillips, M. Spenser, Proc. Phys. Soc., 1955, B 68, 481.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Physico-

technical Institute, AS Turkmenskaya SSR)

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Card 6/6

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DZHEMILEV, G.G.; YERGFEYEV, N.M.; PERELYGIN, V.P.; PETTIOV, V.P.

Studies of structural inhomogeneities and Grifts in the ionosphere over Ashkhabad at altitudes of 200 to 400 km. sonducted under the programs of the International Geophysical Year and International Geophysical Geophy

AUTHORS: Yerofeyey New Main Korsunova, L.P.; Ostan ra, M.B.

AUTHORS: Yerofeyey New Main Korsunova, L.P.; Ostan ra, M.B.

TITLE: Characteristics of the sporadic E layer in the onosphere above Ashkhabad during the IGY and the IGC (1957-1959)

Ashkhabad during the IGY and the IGC (1957-1959)

SOURCE: AN Turkm SSR. Fiziko-tekhnicheskiy institut. Trudy, v.8, 1962, 201-222

SOURCE: AN Turkm SSR. Fiziko-tekhnicheskiy institut. Trudy, v.8, 1962, 201-222

TOPIC TAGS ionosphere, E layer, sporadic E layer Ashkhabad, IGY, IGC, TOPIC TAGS ionosphere, E layer, sporadic E layer Ashkhabad, IGY, IGC, TOPIC TAGS ionosphere, E seasonal variation, distinct distinct at ionosphere

ABSTRACT: The report describes observations of the state of the ionosphere

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ACCESSION NR: AT3002085

of the order of 5 microvolt, and the pulse duration appk 70-90 microsec, with a fine order of 50-cps repeat rate. The sporadic E layer, Eg. was predominantly noted at 100 km for the first the distribution of the basic character-

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YENDEVEY, H.M., oiv. red.; MISHIN, V.M., kand.fiz.-matem. nauk, red.; POLYAKOV, V.M., kand. fiz.-matem. nauk, zem. otv. red.; KUZ'MIN, A.I., kand. fiz.-matem. nauk, red.; NIKOLAYEVA, L.K., red. izd-vz; RYLIMA, Yu.V., tekhn. red.

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(Magnetism, Terrestrial) (Atmosphere, Upper)

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YEROFEYEV, N.M.; PETINOV, V.P.; SHIRMAMEDOV, M.

Recorder for measuring ionospheric radio wave absorption. Izv.AN
Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.3:115-117 '63.

(MIRA 17:3)

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